DIABETES
LITERATURE INDEX

NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES

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DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

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National Institute of Arthritis, Metabolism, and Digestive Diseases

Order of Arrangement

Arrangement of hierarchy
MEDLARS terms included in hierarchy
Hierarchical Subject Index
Keyword Index
Author Index

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PREFACE

Diabetes Literature Index is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

EDITORIAL NOTE

Diabetes Literature Index, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index.*

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimetal and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated conditions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also-to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

Hierarchical Subject Index: This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus;* because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus.* At times the reason why a given citation appears under a specific subject

heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

Key Word Index: For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not appeared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

Author Index: Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

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1.C INSULIN

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1.E.4.7 GLYCOSURIA, METABOLISM

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2.A ENDOCRINE PANCREAS

2.A.1 ISLETS (SEE SEC. 1.A)

2.A.2 INSULIN (SEE SEC. 1.C)

2.A.3 GLUCAGON (SEE SEC. 1.D)

2.B ADRENAL GLANDS

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2.B.2 ADRENAL CORTEX HORMONES

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CELL, BONE MARROW

CELL, EPITHELIAL

CELL GROWTH

CELL, HEART

CELL, IMMUNE

CELL, LIVER

CELL, MAMMALIAN

CELL, SERTOLI

CELL TYPE

CELL, WHITE BLOOD

CELLULOSE, THIN LAYER

CEPHALOMETRY

CEPHALOTHIN

CEREBRAL EDEMA

CEREBRAL GLUCOSE UPTAKE

CEREBRAL HEMISPHERE

CEREBRAL METABOLISM

CHALLENGE

CHAOTROPIC ELUENT

CHEMISTRY, BLOOD

CHEMISTRY, CLINICAL

CHICK EMBRYO

CHICK EMBRYO FIBROBLAST

CHICK EMBRYO HEART CELL

CHICK KIDNEY

CHILD

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CLINICAL CHEMISTRY

CLINICAL CHEMISTRY

CLINICAL CONSIDERATION

CLINICAL COURSE

CLINICAL EVALUATION

CLINICAL EVENT

CLINICAL EXPERIENCE

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CLINICAL IMMUNOLOGY

CLINICAL INVESTIGATION

CLINICAL MEDICINE

CLINICAL PERSPECTIVE

CLINICAL PICTURE

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CLINICAL STUDY

CLINICAL SURVEY

CLINICAL TESTING

CLINICIAN BEHAVIOR

CLOFIBRATE

CLOTTING SYSTEM

COEFFICIENT

COGNITION DISORDER

COLCHICINE

COLD

COLD ACCLIMATION SIMULATION

COLD EXPOSURE

COLD TOLERANCE

COLLATERAL CIRCULATION, PORTACAVAL

COLON EXAMINATION

COMA

CORONARY HEART DISEASE

CORONARY HEART DISEASE

CORONARY MORPHOLOGY

CORTEX, KIDNEY

CORTICOSTEROID, ADRENAL

CORTICOSTEROID, PLASMA

CORTICOTROPIN RELEASING FACTOR

CORTISOL

CORTISOL EFFECT

CORTISOL, PLASMA

COW

CRITICAL CARE PERIOD

CROSSLINKING, INTRAMOLECULAR

CULTURE

CURRENT CONCEPT

CURRENT TREATMENT

CYCLAMATE

CYCLASE, ADENYLATE

CYCLIC AMP

35S-CYSTEINE INCORPORATION

CYSTITIS, EMPHYSEMATOUS

CYTOCHALASIN B

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DOUBLE BLIND CLINICAL

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DRUG, SUGAR FREE

DUCT LIGATED

DUODENAL ACTIVITY

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ETIMIZOL

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EXERCISE

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EXOCRINE FUNCTION

EXPERIMENTAL MODEL

EXPLANT

EXTRACORPOREAL MONITORING

EYE

EYETONE REFLECTANCE METER

FAST

FAST, MATERNAL

FAST, OVERNIGHT

FASTED GOAT

FASTING

FASTING EFFECT

FASTING, HUMAN

FAT CELL

FAT CELL SIZE

FAT EMBOLISM

FAT, POLYUNSATURATED

FATTY ACID, FREE

FIBROBLAST, CHICK EMBRYO

FIBROBLAST, CHICK EMBRYO

FIBROBLAST SURFACE

FISH, FRESH WATER (LABEO CAPENSIS)

FLUORESCENCE

5-FLUOROURACIL

FOLLICLE STIMULATING HORMONE

FOOD INTAKE

FOREARM TISSUE

FOWL, DOMESTIC

FREE FATTY ACID, PLASMA

FREQUENCY

FRUCTOSE

FRUCTOSE-1,6-DIPHOSPHATASE

FUNCTIONAL WORKER

FUNDUS ANGIOGRAPHY

FUNGUS

GALACTOSE CATARACT

GALACTOSEMIA

GAS CHROMATOGRAPHY

GAS PHLEGOMON

GASTRIC ACID SECRETION

GASTRIC EMPTYING

GASTRIC SECRETION

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INSULIN RESPONSE

INSULIN SECRETION

INSULIN SECRETORY RESPONSE

INSULIN, SEMISYNTHETIC TRITIATED

INSULIN SENSITIVITY

INSULIN, SERUM

INSULIN, SERUM IMMUNOREACTIVE

INSULIN THERAPY

INSULIN TREATED DIABETIC

INSULIN TREATMENT

INSULIN, (AI-D-ALANINE)

INSULINEMIA

INSULINOMA

INTENSIVE CARE UNIT

INTERMEDIARY METABOLISM

INTESTINAL EPITHELIUM

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ISOENZYMIC COMPOSITION

ISOENZYMIC COMPOSITION

ISOPRENALINE

ISOPRENALINE EFFECT

JATROPHA CUCURCAS TOXICITY

JEJUNUM, CANINE

JET WASH TECHNIQUE

JUVENILE DIABETES

JUVENILE DIABETES MELLITUS

JUVENILE HAMSTER

JUVENILE PIG

KETOACIDOSIS

KETOACIDOSIS, DIABETIC

KETOGENESIS

KETONE BODY

KETONE BODY METABOLISM

KETOPROFEN

KETOSIS

KHARKOV

KIDNEY

KIDNEY, CHICK

KIDNEY PROVOCATION

KIDNEY, RABBIT

KIDNEY, RAT

KINASE, GLYCEROL

KINASE, LIVER PHOSPHORYLASE B

LIPOSOME

LIPOSOME

LIPOSTABIL

LITHIUM

LIVER CANCER

LIVER, CHICKEN

LIVER DISEASE, CHRONIC

LIVER, FATTY

LIVER, HUMAN

LIVER METABOLITE

LIVER NECROSIS

LIVER, RAT

LIVER, SHEEP

LOCUS, HLA

LONDON

LONG TERM ADMINISTRATION

LONG TERM CARE

LONG TERM EFFECT

LONG TERM STIMULATION

LONG TERM TREATMENT

LOWER EXTREMITY

LUNG CANCER

LUNG TRIGLYCERIDE-LIPASE

LUTEINIZING HORMONE

LYMPHOCYTE

MACROPHAGE, ALVEOLAR

MALBRANCHEA PULCHELLA VAR. SULFUREA

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32P ORTHOPHOSPHATE

OSMIUM TETROXIDE

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OXYGEN

OXYGEN CONSUMPTION

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PANCREAS

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RUMEN, SHEEP

SACCHARIN

SACCHAROSE INTOLERANCE

SALBUTAMOL EFFECT

SALIVARY CELL

SANATORIUM

SAT

SEE SPERMATOGENIC ACTIVITY TEST

SATIATION

SATIETY

SCHISTOSOMA MANSONI

SCHIZOPHRENIA

SCHOOL AGE CHILD

SCLEROSIS, POSTEROLATERAL

SECRETIN

SEDIMENTATION COEFFICIENT

SELENIUM EFFECT

SEQUENCE FRAGMENT

SERINE, EXTRACELLULAR

14C SERINE INCORPORATION

SEROTONIN ANTAGONIST

SERUM, FETAL BOVINE

SERUM, HUMAN

SEX DIFFERENCE

SHEEP

SHEEP LIVER

SHEEP, NEONATAL

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SORBITOL UPTAKE

SORBITOL UPTAKE

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SPECIES SPECIFIC

SPECIFIC BINDING

SPECIFIC GRAVITY

SPECIFIC HORMONAL SYSTEM

SPECIFIC RADIOACTIVITY

SPECIFIC TRANSPORT SYSTEM

SPECTROMETER, VIDICON

SPERMATOGENIC ACTIVITY TEST

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STATUS

STEREOSCOPIC FLUORESCENCE MICROANGIOGRAPHY

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STREPTOZOTOCIN

STREPTOZOTOCIN INDUCED DIABETES

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SWITZERLAND

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SYNDROME, AORTIC ARCH

SYNDROME, DIABETIC

SYNDROME, FAMILIAL

SYNDROME, HYPOGLYCEMIC

SYNDROME, HYPONATREMIA

SYNDROME, MYOPATHY

SYNDROME, NEPHROTIC

SYNDROME, NEUROGLYCOPENIC

SYNDROME, OBESE HYPERGLYCEMIC

SYNDROME, POSTPARTUM HEMOLYTIC UREMIC

SYNDROME, VERNER MORRISON

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SYSTEMIC CIRCULATION

SYSTEMIC DISEASE

TASTE SENSITIVITY

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TESTING PROCEDURE

TESTOSTERONE EFFECT

TESTOSTERONE, PLASMA

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THEOPHYLLINE EFFECT

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THROMBUS, ARTIFICIAL

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SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION IN RAT ISLET CULTURE: REVERSAL BY IONOPHORE A23187. Fujimoto WY, Ensinck JW *Endocrinology 98: 259-62, Jan 76 (Eng)*
ANIMAL EXPERIMENTS; CELLS, CULTURED; GLUCAGON (secretion); INSULIN (secretion); IONOPHORES (pharmacodynamics); ISLANDS OF LANGERHANS (secretion, ultrastructure, cytology); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H..

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CELLS, CULTURED; GLUCOSE (pharmacodynamics); HUMAN; INSULIN (secretion); ISLET CELL TUMOR (secretion); PANCREATIC NEOPLASMS (secretion); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H..

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ADULT; AGED; BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); CARDIOVASCULAR DISEASES (metabolism, physiopathology); CORONARY CIRCULATION; CORONARY DISEASE (metabolism); ELECTROCARDIOGRAPHY; ENERGY METABOLISM; ENGLISH ABSTRACT; EXERCISE TEST; EXERTION; FEMALE; GLUCOSE (metabolism); HEART CATHETERIZATION; HEART DISEASES (metabolism); HUMAN; HYPERTENSION (metabolism); LACTATES (metabolism); MALE; MIDDLE AGE; MYOCARDIUM (metabolism); NEUROCIRCULATORY ASTHENIA (metabolism); OXYGEN CONSUMPTION; PYRUVATES (metabolism).

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